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Television Work at Adlershof

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1.

Dr. Matzke was in charge of the development laboratory and Augustine directed the studio construction and outfitting. The line potential varied between 200 and 230 volts while the frequency fluctuated from 47 to 55 cycles. adapting the available tubes, coils, etc, to the given conditions was a time-consuming job. Each of the four studios are to have four separate circuits: (1) TV; (2) tone; (3) signal; (4) power supply. There were four technicians and two draftsmen working in this office.

Studio 1, the smallest, was 80% finished and the other three had no electric installations at all. The two-hour daily programs televised motion pictures and stills. The subjects were usually political, with an occasional

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sprinkling of sports events. Broadcast was good but reception was below average. The programs were broadcast to City Hall (Berlin) on 300 mega Hz. There they were demodulated, remodulated and broadcast on 99.8 mega Hz. The tone was on a frequency 6.5 Hz lower. This is in the region of the police band, which causes much interference. The City Hall installation was made by Sachsenwerk-Radeberg. The antenna was constructed by Oberspreewerk.

Equipment and Personnel

2. The Central Laboratory at Adlershof is situated on land once occupied by the Reichs Luftwaffe. The building, three stories high with a basement, had about 60 rooms. It was guarded by dogs and men. The direction sender tower for transmitting to the City Hall was about 150 meters from the building. The equipment was good but there seemed to be a continuous shortage of materials and instruments. This was partly due to the complicated system of getting supplies. Copper and iron were particularly short. Iconoscopes were brought from Telefunken. The tubes that were available were of good quality. There was a good library which contained many German and English technical journals. In general, the technical men were competent. The following sections were under the direction of the men indicated:

Cameras - HeffmannImpulse generators - RichterScanning - SiegelMeasuring Instruments - JandtMiniature tubes - LindnerHigh Frequency - SohrInter-room signals - EinspornTone engineer - Brosev

Working Conditions

3. Everybody in the laboratory was carefully watched [redacted] Whenever a mishap occurred [redacted] all afraid of being falsely accused. Once there was a small fire which resulted from the explosion of a lamp bulb. The intense investigation that followed would have been justified had a murder been committed. Engineers have a pride in doing their work well and want to see things function. A "slow up" in work is hardly possible since the tempo of following a "plan" is necessarily very slow. [redacted]

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Comments

4.

The Technische Hoch-

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schule has been largely repaired and rebuilt. [REDACTED]

[REDACTED] the equipment was good and [REDACTED] the attendance was large. Apparently the academic standards have not been lowered, for it is reported that many peasant sons, encouraged to attend institutions of higher learning, fail in their studies largely because of poor pre-technical school preparation. [REDACTED]

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